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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/567,331	03/01/2006	Franciscus Hubertus Maria Stappers	13877/16601	4994	
26646 7590 KONYON & KENYON LLP ONE BROADWAY			EXAMINER		
			FRANK, NOAH S		
NEW YORK,	NY 10004		ART UNIT	PAPER NUMBER	
			1796		
			MAIL DATE	DELIVERY MODE	
			05/11/2010	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.	Applicant(s)	
10/567,331	STAPPERS, FRANCISCUS HUBERTUS MARIA	
Examiner	Art Unit	
NOAH FRANK	1796	

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	NOAH FRANK	1796				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING D. Extensions of time may be available under the provisions of 3 CPR 1.1 after SIX (6) MONTHS from the mailing date of this communication. If to period for raph's specified above, the macramin statutory period very the control of raph's specified above, the macramin statutory period very control of the provision of t	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim- rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE!	N. nely filed the mailing date of this o D (35 U.S.C. § 133).				
Status						
Responsive to communication(s) filed on 18 M 2a) This action is FINAL. 2b) This 3) Since this application is in condition for allowar closed in accordance with the practice under E Disposition of Claims	action is non-final. nce except for formal matters, pro		e merits is			
·						
4) ⊠ Claim(s) 1-9 and 11-22 is/are pending in the ap- 4a) Of the above claim(s) <u>5.6 and 17-19</u> is/are t 5) □ Claim(s) <u>is/are allowed.</u> 6) ⊠ Claim(s) 1,2.4.8,9.11.12,14-16 and 20-22 is/are 7) ⊠ Claim(s) <u>3.7 and 13</u> is/are objected to. 8) □ Claim(s) <u>are subject to restriction and/or</u>	withdrawn from consideration. e rejected.					
Application Papers						
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the Ex	epted or b) objected to by the E drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). jected to. See 37 C				
Priority under 35 U.S.C. § 119						
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received. 2. ☐ Certified copies of the priority documents have been received in Application No 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
Attachment(s)	0 □ burston 2	(DTO 440)				
Notice of References Cited (PTO-892)	 Interview Summary 	(F1U-413)				

- Notice of Draftsperson's Patent Drawing Review (PTO-948)
 Information Disclosure Statement(s) (PTO/SB/08)
 - Paper No(s)/Mail Date ___

4)	Interview Summary (PTO-413
	Paper No(s)/Mail Date.

5) Notice of Informal Patent Application
6) Other:

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DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior at are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 1-2, 4, 9, 11-12, 16, 21-22 are rejected under 35 U.S.C. 103(a) as being unpatentable over Honnick (US 6,669,835) in view of Wicks. *Organic Coatings: Science and Technology*. 1999.

Considering Claims 1-2, 4, 9, 11-12: Honnick teaches aqueous compositions containing polymerizable components and a water incompatible catalyst sorbed onto an inorganic particulate carrier (Abs). The polymerizable components may be isocyanates and amines or epoxies (cross-linkable by polar reaction) (8:25-35, 60-65). The inorganic particulate carrier may be silica (sand) (5:45-50). The catalyst may be dibutyltin dilaurate (5:45-50), a Lewis acid.

Honnick does not teach the catalyst as a separate part of a two phase system.

However, Wicks teaches that two package coatings may contain the catalyst in a separate third package so that cure rate can be adjusted for variations in ambient conditions (p193). Honnick and Wicks are analogous art because they are from the same field of endeavor, namely urethane coatings. At the time of the invention a person of ordinary skill in the art would have found it obvious to have used a separate catalyst

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phase, as taught by Wicks, in the invention of Honnick, in order to allow adjustment of cure time. This combination would allow application of the catalyst after mixing of the urethane components, resulting in the claimed invention.

Considering Claims 16 and 21-22: Honnick does not teach the claimed amount of catalyst in the powder phase. However, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. MPEP 2144.05. The amount of catalyst directly affects the curing speed of the coating. Consequently, it would be obvious to optimize.

Claims 14-15 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Honnick (US 6,669,835) in view of Wicks. *Organic Coatings: Science and Technology*. 1999., as applied to claims 1 and 11-12 above, and further in view of Ashley et al. (US 5,039,718).

Considering Claims 14-15 and 20: Honnick teaches the basic claimed composition as set forth above.

Honnick does not teach the claimed particle size of sand. However, Ashley et al. teaches silica fillers (6:35-45) wherin the particles may be a mixture of two or more sets of particles with two widely differing mean particle sizes such that particles of one or more set can fit in the interstices of those of the others within the matrix (7:5-10). Honnick and Ashley are analogous art because they are from the same field of endeavor, namely silica fillers. At the time of the invention a person of ordinary skill in

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the art would have found it obvious to have used a multimodal particle distribution, as taught by Ashley, in the invention of Honnick, in order to achieve high filler loadings (7:5-10 of Ashley). With regard to the particular claimed particle size(s) and ranges of the multimodal distribution, the experimental modification of this prior art in order to ascertain optimum operating conditions fails to render applicants' claims patentable in the absence of unexpected results. MPEP 2144.05. As taught by Ashley, multimodal distributions are used to fill interstitial space between fillers and achieve a higher loading (7:5-10). It then flows naturally that there must be a higher percentage of the larger filler with a lower percentage of the smaller filler(s), such that the interstitial spaces are filled.

Claim 8 rejected under 35 U.S.C. 103(a) as being unpatentable over Honnick (US 6,669,835) in view of Wicks. *Organic Coatings: Science and Technology*. 1999., as applied to claim 1 above, and further in view of Caldwell et al. (US 6,316,535).

Considering Claim 8: Honnick teaches the basic claimed composition as set forth above.

Honnick does not teach the powder phase comprising one or more amines. However, Caldwell et al. teaches that long chain tertiary amines may be used as a catalyst as an alternative to dibutyltinlaurate or zinc octoate (3:5-10). Honnick and Caldwell are analogous art because they are from the same filed of endeavor, namely polyurethane coatings. At the time of the invention a person of ordinary skill in the art Art Unit: 1796

would have found it obvious to have used a tertiary amine, as taught by Caldwell, in the invention of Honnick, as an equivalent alternative catalyst.

Allowable Subject Matter

Claims 3, 7, and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The following is a statement of reasons for the indication of allowable subject matter: There is insufficient motivation to replace the catalysts of Honnick. Catalysts are dependent on the system in which they are used, and there is no reasonable expectation of success that Lewis acid and base precursors, phosphines, or zirconium coated titanium dioxide would catalyze the system.

Response to Arguments

Applicant's arguments filed 3/18/10 have been considered but are moot in view of the new ground(s) of rejection.

Applicant's arguments regarding Caldwell are persuasive. As fillers are customarily employed in large amounts and are well dispersed constituents, the skilled artisan would not be motivated to store them separately as this would be detrimental to the structural properties of the coatings and require substantially more work from the end user.

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The rejection over Brindopke has been withdrawn based on the amendment.

There is insufficient motivation to sorb the catalysts of Brindopke onto a solid carrier.

In response to applicant's arguments regarding Honnick, while Honnick desires a smooth coating, a separate catalyst mixing step will not prevent a smooth coating. Furthermore, as the claims are drawn to a system, the limitations regarding the method of future intended application of the powder phase have no bearing on the patentability of a composition claim. While it may be the intention that the catalyst is sprinkled onto the coated system, this is not a requirement of the claims.

Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to NOAH FRANK whose telephone number is (571)270-3667. The examiner can normally be reached on M-F 9-5 EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mark Eashoo can be reached on 571-272-1197. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

NF 5-5-10

> /Marc S. Zimmer/ Primary Examiner, Art Unit 1796